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OM protein - protein search, using sw model

Run on: June 23, 2003, 08:39:17 ; Search time 51.9851 Seconds  
(without alignments)  
382.995 Million cell updates/sec

Title: US-10-077-137-1

Perfect score: 964  
Sequence: 1 MOWAGQCSQNEYFDSLHRA.....CKSLPAULSATEIKSISAR 184

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 417779 seqs, 108206813 residues

Optimal number of hits satisfying chosen parameters: 417779

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications AA.\*  
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14: /cgn2\_6/ptodata/1/pubpaa/US60\_PUBCOMB.pep.\*

Prod. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	964	100.0	184	9	US-10-077-438-1
2	964	100.0	184	9	US-10-077-438-7
3	964	100.0	184	9	US-10-077-137-1
4	964	100.0	184	9	US-10-077-137-7
5	964	100.0	184	9	US-10-068-725-2
6	964	100.0	184	9	US-10-151-882-47
7	964	100.0	184	9	US-10-115-192-8
8	964	100.0	184	9	US-10-008-063-7
9	964	100.0	184	9	US-10-152-363A-27
10	950	98.5	181	10	US-09-854-864-5
11	572	59.3	185	10	US-09-854-864-11
12	323	33.5	58	10	US-09-854-864-21
13	311.5	32.3	117	10	US-09-854-864-12
14	286.5	29.7	302	9	US-10-115-192-12
15	286	29.5	283	10	US-09-854-864-9
16	284	29.5	51	10	US-09-854-864-6
17	264	27.4	207	9	US-10-077-438-3
18	264	27.4	207	9	US-10-077-137-3
19	201	20.9	34	10	US-09-854-864-7

20	201	20.9	81	10	US-09-854-864-13	Sequence 13, Appl
21	187	19.4	281	10	US-09-854-864-10	Sequence 10, Appl
22	116.5	12.1	175	9	US-10-008-063-13	Sequence 13, Appl
23	104	10.8	21	10	US-09-854-864-8	Sequence 8, Appl
24	100	10.4	185	9	US-10-251-947-2	Sequence 2, Appl
25	93	9.6	184	9	US-10-008-063-2	Sequence 2, Appl
26	93	9.6	184	9	US-10-152-363A-60	Sequence 60, Appl
27	91	9.4	171	9	US-10-251-947-4	Sequence 4, Appl
28	91	9.4	171	9	US-10-251-947-7	Sequence 7, Appl
29	90.5	9.4	170	9	US-10-251-947-6	Sequence 6, Appl
30	86.5	9.0	392	9	US-10-152-363A-50	Sequence 50, Appl
31	84	8.7	338	9	US-10-152-363A-52	Sequence 52, Appl
32	83	8.6	342	9	US-10-152-363A-54	Sequence 54, Appl
33	81.5	8.5	186	9	US-10-251-947-14	Sequence 14, Appl
34	79.5	8.2	293	9	US-09-779-050A-42	Sequence 42, Appl
35	79.5	8.2	1009	8	US-08-987-688A-2	Sequence 2, Appl
36	78.5	8.1	293	9	US-10-084-971-2	Sequence 2, Appl
37	78.5	8.1	293	9	US-10-068-725-4	Sequence 4, Appl
38	78.5	8.1	293	9	US-09-302-863-2	Sequence 2, Appl
39	78.5	8.1	293	9	US-10-151-882-46	Sequence 46, Appl
40	78.5	8.1	293	9	US-10-293-816-2	Sequence 2, Appl
41	78.5	8.1	293	9	US-10-008-063-8	Sequence 8, Appl
42	78.5	8.1	293	9	US-10-152-363A-2	Sequence 2, Appl
43	78.5	8.1	293	10	US-09-879-919-22	Sequence 22, Appl
44	78.5	8.1	293	10	US-09-854-864-14	Sequence 14, Appl
45	78.5	8.1	293	10	US-09-961-376-2	Sequence 2, Appl

## ALIGNMENTS

## RESULT 1

US-10-077-438-1

Sequence 1, Application US/10077438

Patent No. US20020165156A1

GENERAL INFORMATION:

APPLICANT: Mackay, Fabienne

APPLICANT: Browning, Jeffrey

APPLICANT: Ambrose, Christine

APPLICANT: Techopp, Urig

APPLICANT: Schneider, Pascal

APPLICANT: Thompson, Jeffrey

APPLICANT: Biogen, Inc.

APPLICANT: Aptech Rad S.A.

TITLE OF INVENTION: Baff Receptor (BCMA), An

FILE REFERENCE: A080PCT

CURRENT FILING DATE: 2002-02-18

PRIOR FILING DATE: 1999-08-17

PRIOR APPLICATION NUMBER: 60/181,684

PRIOR FILING DATE: 2000-02-11

PRIOR APPLICATION NUMBER: 60/183,536

NUMBER OF SEQ ID NOS: 8

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO. 1

LENGTH: 184

TYPE: PR

ORGANISM: homo sapien

US-10-077-438-1

Query Match

Best Local Similarity 100.0%; Score 964; DB 9; Length 184;

Matches 184; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MOWAGQCSQNEYFDSLHRA.....CKSLPAULSATEIKSISAR 184

Db 1 MOWAGQCSQNEYFDSLHRA.....CKSLPAULSATEIKSISAR 184

QY 61 GILSLISAVFLVLMFLKRISEPLKDEFKOTGSLGAMANDLEKSRGTGEIILPRGLE 120

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Db      61 GLSLIISLAVFLVLMFLRKISSEPLKDEFKNTGSGLLGMANIDLEKSRTEDEIILPRGLE 120
Qy      121 YTVBEECTCEDCIKSKRPVDSHCFPLPAMEEGATILVTTKNDYCKSLPALASATEIEKS 180
Db      121 YTVBEECTCEDCIKSKRPVDSHCFPLPAMEEGATILVTTKNDYCKSLPALASATEIEKS 180
Qy      181 ISAR 184
Db      181 ISAR 184

RESULT 2
US-10-077-438-7
; Sequence 7, Application US/10077438
; Patent No. US20020165156A1
; GENERAL INFORMATION:
; APPLICANT: Mackay, Fabienne
; APPLICANT: Browning, Jeffrey
; APPLICANT: Ambrose, Christine
; APPLICANT: Techopp, Jurg
; APPLICANT: Schneider, Pascal
; APPLICANT: Thompson, Jeffrey
; APPLICANT: Biogen, Inc.
; TITLE OF INVENTION: ApoTech R&D S.A.
; TITLE OF INVENTION: Baff Receptor (BCMA), An
; FILE REFERENCE: A080PCT
; CURRENT APPLICATION NUMBER: US/10/077,438
; CURRENT FILING DATE: 2002-02-18
; PRIOR APPLICATION NUMBER: 60/149,378
; PRIOR FILING DATE: 1999-08-17
; PRIOR APPLICATION NUMBER: 60/181,684
; PRIOR FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/183,536
; PRIOR FILING DATE: 2000-02-18
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 184
; TYPE: PRT
; ORGANISM: homo sapien
US-10-077-438-7

Query Match      100.0%; Score 964; DB 9; Length 184;
Best Local Similarity 100.0%; Pred. No. 6,3e-89;
Matches 184; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db      1 MLOMAGCCSQNEYFDSLHACIPCOLRCSSNTPTLCQRYCNASVTNSVKGTAIIMTCL 60
Qy      61 GLSLIISLAVFLVLMFLRKISSEPLKDEFKNTGSGLLGMANIDLEKSRTEDEIILPRGLE 120
Db      61 GLSLIISLAVFLVLMFLRKISSEPLKDEFKNTGSGLLGMANIDLEKSRTEDEIILPRGLE 120
Qy      121 YTVBEECTCEDCIKSKRPVDSHCFPLPAMEEGATILVTTKNDYCKSLPALASATEIEKS 180
Db      121 YTVBEECTCEDCIKSKRPVDSHCFPLPAMEEGATILVTTKNDYCKSLPALASATEIEKS 180
Qy      181 ISAR 184
Db      181 ISAR 184

RESULT 3
US-10-077-137-1
; Sequence 1, Application US/10077137
; Patent No. US20020172674A1
; GENERAL INFORMATION:
; APPLICANT: Mackay, Fabienne
; APPLICANT: Browning, Jeffrey
; APPLICANT: Ambrose, Christine
; APPLICANT: Techopp, Jurg
```

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; APPLICANT: Schneider, Pascal
; APPLICANT: Thompson, Jeffrey
; APPLICANT: Biogen, Inc.
; APPLICANT: ApoTech R&D S.A.
; TITLE OF INVENTION: Baff Receptor (BCMA), An
; FILE REFERENCE: A080PCT
; CURRENT APPLICATION NUMBER: US/10/077,137
; CURRENT FILING DATE: 2001-02-15
; PRIOR APPLICATION NUMBER: 60/149,378
; PRIOR FILING DATE: 1999-08-17
; PRIOR APPLICATION NUMBER: 60/181,684
; PRIOR FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/183,536
; PRIOR FILING DATE: 2000-02-18
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 184
; TYPE: PRT
; ORGANISM: homo sapien
US-10-077-137-1

Query Match      100.0%; Score 964; DB 9; Length 184;
Best Local Similarity 100.0%; Pred. No. 6,3e-89;
Matches 184; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 MLOMAGCCSQNEYFDSLHACIPCOLRCSSNTPTLCQRYCNASVTNSVKGTAIIMTCL 60
Db      1 MLOMAGCCSQNEYFDSLHACIPCOLRCSSNTPTLCQRYCNASVTNSVKGTAIIMTCL 60
Qy      61 GLSLIISLAVFLVLMFLRKISSEPLKDEFKNTGSGLLGMANIDLEKSRTEDEIILPRGLE 120
Db      61 GLSLIISLAVFLVLMFLRKISSEPLKDEFKNTGSGLLGMANIDLEKSRTEDEIILPRGLE 120
Qy      121 YTVBEECTCEDCIKSKRPVDSHCFPLPAMEEGATILVTTKNDYCKSLPALASATEIEKS 180
Db      121 YTVBEECTCEDCIKSKRPVDSHCFPLPAMEEGATILVTTKNDYCKSLPALASATEIEKS 180
Qy      181 ISAR 184
Db      181 ISAR 184

RESULT 4
US-10-077-137-7
; Sequence 7, Application US/10077137
; Patent No. US20020172674A1
; GENERAL INFORMATION:
; APPLICANT: Mackay, Fabienne
; APPLICANT: Browning, Jeffrey
; APPLICANT: Ambrose, Christine
; APPLICANT: Techopp, Jurg
; APPLICANT: Schneider, Pascal
; APPLICANT: Thompson, Jeffrey
; APPLICANT: Biogen, Inc.
; APPLICANT: ApoTech R&D S.A.
; TITLE OF INVENTION: Baff Receptor (BCMA), An
; FILE REFERENCE: A080PCT
; CURRENT APPLICATION NUMBER: US/10/077,137
; CURRENT FILING DATE: 2001-02-15
; PRIOR APPLICATION NUMBER: 60/149,378
; PRIOR FILING DATE: 1999-08-17
; PRIOR APPLICATION NUMBER: 60/181,684
; PRIOR FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: 60/183,536
; PRIOR FILING DATE: 2000-02-18
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 184
; TYPE: PRT
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ORGANISM: homo sapien  
US-10-077-137-7

Query Match 100.0%; Score 964; DB 9; Length 184;  
Best Local Similarity 100.0%; Pred. No. 6.3e-89;  
Matches 184; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLOMAGGCSQNEYPDSLHACIPCOLRCSSNTPPLTCORYCNASVTNSVKGTMALMTCL 60  
DB 1 MLOMAGGCSQNEYPDSLHACIPCOLRCSSNTPPLTCORYCNASVTNSVKGTMALMTCL 60  
QY 61 GSLIISLAVFVLMFLRKISSEPLKDEFKNTGSLGMANIDLEKSRGTGEIILPRGLE 120  
DB 61 GSLIISLAVFVLMFLRKISSEPLKDEFKNTGSLGMANIDLEKSRGTGEIILPRGLE 120  
QY 121 YVVECTCEDCIKSKPKVSDHCFPLPAMEBGATILVTTKTNKYCSLPALSAATEIEKS 180  
DB 121 YVVECTCEDCIKSKPKVSDHCFPLPAMEBGATILVTTKTNKYCSLPALSAATEIEKS 180

QY 181 ISAR 184  
DB 181 ISAR 184

RESULT 5  
US-10-068-725-2

Sequence 2, Application US/10068725  
Publication No. US20030012783A1

GENERAL INFORMATION:

APPLICANT: Kindavogel, Wayne

TITLE OF INVENTION: Antibodies That Bind Both BCMA and TACI

FILE REFERENCE: 01-04

CURRENT APPLICATION NUMBER: US/10/068,725

PRIOR FILING DATE: 2002-02-06

PRIOR APPLICATION NUMBER: 60/270,274

PRIOR FILING DATE: 2001-02-20

PRIOR APPLICATION NUMBER: 60/283,447

PRIOR FILING DATE: 2001-04-12

NUMBER OF SEQ ID NOS: 5

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 2

LENGTH: 184

TYPE: PRT

ORGANISM: Homo sapiens

US-10-068-725-2

Query Match 100.0%; Score 964; DB 9; Length 184;  
Best Local Similarity 100.0%; Pred. No. 6.3e-89;  
Matches 184; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLOMAGGCSQNEYPDSLHACIPCOLRCSSNTPPLTCORYCNASVTNSVKGTMALMTCL 60  
DB 1 MLOMAGGCSQNEYPDSLHACIPCOLRCSSNTPPLTCORYCNASVTNSVKGTMALMTCL 60  
QY 61 GSLIISLAVFVLMFLRKISSEPLKDEFKNTGSLGMANIDLEKSRGTGEIILPRGLE 120  
DB 61 GSLIISLAVFVLMFLRKISSEPLKDEFKNTGSLGMANIDLEKSRGTGEIILPRGLE 120  
QY 121 YVVECTCEDCIKSKPKVSDHCFPLPAMEBGATILVTTKTNKYCSLPALSAATEIEKS 180  
DB 121 YVVECTCEDCIKSKPKVSDHCFPLPAMEBGATILVTTKTNKYCSLPALSAATEIEKS 180  
QY 181 ISAR 184  
DB 181 ISAR 184

RESULT 6

US-10-151-882-47

Sequence 47, Application US/10151882

Publication No. US20030059862A1

GENERAL INFORMATION:

APPLICANT: Ruben, Steven M.

TITLE OF INVENTION: Antibodies Against Tumor Necrosis Factor Delta (APRIL)

FILE REFERENCE: PFS54

CURRENT APPLICATION NUMBER: US/10/151,882

CURRENT FILING DATE: 2002-05-22

PRIOR APPLICATION NUMBER: 60/293,100

PRIOR FILING DATE: 2001-05-24

NUMBER OF SEQ ID NOS: 48

SOFTWARE: Patent In version 3.0

SEQ ID NO 47

LENGTH: 184

TYPE: PRT

ORGANISM: Homo sapiens

US-10-151-882-47

Query Match 100.0%; Score 964; DB 9; Length 184;  
Best Local Similarity 100.0%; Pred. No. 6.3e-89;  
Matches 184; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLOMAGGCSQNEYPDSLHACIPCOLRCSSNTPPLTCORYCNASVTNSVKGTMALMTCL 60  
DB 1 MLOMAGGCSQNEYPDSLHACIPCOLRCSSNTPPLTCORYCNASVTNSVKGTMALMTCL 60  
QY 61 GSLIISLAVFVLMFLRKISSEPLKDEFKNTGSLGMANIDLEKSRGTGEIILPRGLE 120  
DB 61 GSLIISLAVFVLMFLRKISSEPLKDEFKNTGSLGMANIDLEKSRGTGEIILPRGLE 120  
QY 121 YVVECTCEDCIKSKPKVSDHCFPLPAMEBGATILVTTKTNKYCSLPALSAATEIEKS 180  
DB 121 YVVECTCEDCIKSKPKVSDHCFPLPAMEBGATILVTTKTNKYCSLPALSAATEIEKS 180  
QY 181 ISAR 184  
DB 181 ISAR 184

RESULT 7

US-10-115-192-8

Sequence 8, Application US/10115192

Publication No. US20030082175A1

GENERAL INFORMATION:

APPLICANT: Apotech R & D S.A.

TITLE OF INVENTION: April Receptor (BCMA) and Uses Thereof

FILE REFERENCE: A083PCT

CURRENT APPLICATION NUMBER: US/10/115,192

PRIOR FILING DATE: 2002-04-02

PRIOR APPLICATION NUMBER: 60/215688

PRIOR FILING DATE: 2000-06-30

PRIOR APPLICATION NUMBER: 60/181807

PRIOR FILING DATE: 2000-02-11

PRIOR APPLICATION NUMBER: 60/157933

PRIOR FILING DATE: 1999-10-06

NUMBER OF SEQ ID NOS: 12

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 8

LENGTH: 184

TYPE: PRT

ORGANISM: homo sapiens

US-10-115-192-8

Query Match 100.0%; Score 964; DB 9; Length 184;  
Best Local Similarity 100.0%; Pred. No. 6.3e-89;  
Matches 184; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLOMAGGCSQNEYPDSLHACIPCOLRCSSNTPPLTCORYCNASVTNSVKGTMALMTCL 60  
DB 1 MLOMAGGCSQNEYPDSLHACIPCOLRCSSNTPPLTCORYCNASVTNSVKGTMALMTCL 60  
QY 61 GSLIISLAVFVLMFLRKISSEPLKDEFKNTGSLGMANIDLEKSRGTGEIILPRGLE 120  
DB 61 GSLIISLAVFVLMFLRKISSEPLKDEFKNTGSLGMANIDLEKSRGTGEIILPRGLE 120  
QY 121 YVVECTCEDCIKSKPKVSDHCFPLPAMEBGATILVTTKTNKYCSLPALSAATEIEKS 180

Db 121 YTVBECTCEDCIKSKRPVDSHCFPLPAMEGATILVTTKNDYCKSLPALSAITEIKS 180  
QY 181 ISAR 184  
Db 181 ISAR 184

## RESULT 8

US-10-008-063-7  
; Sequence 7, Application US/10008063  
; Publication No. US20030092164A1  
; GENERAL INFORMATION:  
; APPLICANT: Gross, Jane A.  
; APPLICANT: Gross, Jane A.  
; APPLICANT: Xu, Wenfeng  
; APPLICANT: Henne, Randal M.  
; APPLICANT: Grant, Francis, J.  
; TITLE OF INVENTION: Human Tumor Necrosis Factor Receptor  
; FILE REFERENCE: 00-103  
; CURRENT APPLICATION NUMBER: US/10/008,063  
; NUMBER OF SEQ ID NOS: 46  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 7  
; LENGTH: 184  
; TYPE: PRF  
; ORGANISM: Homo sapiens  
US-10-008-063-7

Query Match 100.0%; Score 964; DB 9; Length 184;  
Best Local Similarity 100.0%; Pred. No. 6,3e-89;  
Matches 184; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLOMAGCCSONEYPDSLHACIPCOLRCSNTPLTCORCYCNASVYNSVKGTAIILMTCL 60  
1 MLOMAGCCSONEYPDSLHACIPCOLRCSNTPLTCORCYCNASVYNSVKGTAIILMTCL 60  
Db 61 GLSLIISLAVFLMFLRKISSEPLKDEPKNTGSGGLGMANIDLEKSRGTGEIILPRGLE 120  
61 GLSLIISLAVFLMFLRKISSEPLKDEPKNTGSGGLGMANIDLEKSRGTGEIILPRGLE 120  
QY 121 YTVBECTCEDCIKSKRPVDSHCFPLPAMEGATILVTTKNDYCKSLPALSAITEIKS 180  
121 YTVBECTCEDCIKSKRPVDSHCFPLPAMEGATILVTTKNDYCKSLPALSAITEIKS 180  
Db 121 YTVBECTCEDCIKSKRPVDSHCFPLPAMEGATILVTTKNDYCKSLPALSAITEIKS 180  
QY 181 ISAR 184  
Db 181 ISAR 184

## RESULT 9

US-10-152-363A-27  
; Sequence 27, Application US/10152363A  
; Publication No. US20030103986A1  
; GENERAL INFORMATION:  
; APPLICANT: Rixom, Mark W.  
; APPLICANT: Gross, Jane A.  
; TITLE OF INVENTION: TACI-Immunoglobulin Fusion Proteins  
; FILE REFERENCE: 01-20  
; CURRENT APPLICATION NUMBER: US/10/152,363A  
; PRIOR FILING DATE: 2002-05-20  
; PRIOR APPLICATION NUMBER: 60/293,343  
; PRIOR FILING DATE: 2001-05-24  
; NUMBER OF SEQ ID NOS: 70  
; SOFTWARE: FastSeq for Windows Version 3.0  
; SEQ ID NO 27  
; LENGTH: 184  
; TYPE: PRF  
; ORGANISM: Homo sapiens  
US-10-152-363A-27

Query Match 100.0%; Score 964; DB 9; Length 184;  
Best Local Similarity 100.0%; Pred. No. 6,3e-89;

Matches 184; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLOMAGCCSONEYPDSLHACIPCOLRCSNTPLTCORCYCNASVYNSVKGTAIILMTCL 60  
1 MLOMAGCCSONEYPDSLHACIPCOLRCSNTPLTCORCYCNASVYNSVKGTAIILMTCL 60  
Db 61 GLSLIISLAVFLMFLRKISSEPLKDEPKNTGSGGLGMANIDLEKSRGTGEIILPRGLE 120  
61 GLSLIISLAVFLMFLRKISSEPLKDEPKNTGSGGLGMANIDLEKSRGTGEIILPRGLE 120  
QY 121 YTVBECTCEDCIKSKRPVDSHCFPLPAMEGATILVTTKNDYCKSLPALSAITEIKS 180  
121 YTVBECTCEDCIKSKRPVDSHCFPLPAMEGATILVTTKNDYCKSLPALSAITEIKS 180  
Db 121 YTVBECTCEDCIKSKRPVDSHCFPLPAMEGATILVTTKNDYCKSLPALSAITEIKS 180  
QY 181 ISAR 184  
Db 181 ISAR 184

## RESULT 10

US-09-854-864-5  
; Sequence 5, Application US/09854864  
; Patent No. US20020081296A1  
; GENERAL INFORMATION:  
; APPLICANT: THEILL, LARS EYDE  
; APPLICANT: YU, GANG  
; TITLE OF INVENTION: METHODS AND COMPOSITIONS OF MATTER CONCERNING APRIL/G70, BCMA,  
; TITLE OF INVENTION: BLYS/AGP-3, AND TACI  
; FILE REFERENCE: A-686B  
; CURRENT APPLICATION NUMBER: US/09/854,864  
; PRIOR FILING DATE: 2001-09-11  
; PRIOR APPLICATION NUMBER: US 60/204,039  
; PRIOR FILING DATE: 2000-05-12  
; PRIOR APPLICATION NUMBER: US 60/214,591  
; PRIOR FILING DATE: 2000-06-27  
; NUMBER OF SEQ ID NOS: 31  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 5  
; LENGTH: 181  
; TYPE: PRF  
; ORGANISM: Homo sapiens  
US-09-854-864-5

Query Match 98.5%; Score 950; DB 10; Length 181;  
Best Local Similarity 100.0%; Pred. No. 1,6e-87;  
Matches 181; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 MAGCCSONEYPDSLHACIPCOLRCSNTPLTCORCYCNASVYNSVKGTAIILMTCLGLS 63  
1 MAGCCSONEYPDSLHACIPCOLRCSNTPLTCORCYCNASVYNSVKGTAIILMTCLGLS 60  
Db 64 LIISLAVFLMFLRKISSEPLKDEPKNTGSGGLGMANIDLEKSRGTGEIILPRGLETV 123  
61 LIISLAVFLMFLRKISSEPLKDEPKNTGSGGLGMANIDLEKSRGTGEIILPRGLETV 120  
QY 124 EECTCEDCIKSKRPVDSHCFPLPAMEGATILVTTKNDYCKSLPALSAITEIKSISA 183  
124 EECTCEDCIKSKRPVDSHCFPLPAMEGATILVTTKNDYCKSLPALSAITEIKSISA 183  
Db 121 EECTCEDCIKSKRPVDSHCFPLPAMEGATILVTTKNDYCKSLPALSAITEIKSISA 180  
QY 184 R 184  
Db 181 R 181

## RESULT 11

US-09-854-864-11  
; Sequence 11, Application US/09854864  
; Patent No. US20020081296A1  
; GENERAL INFORMATION:  
; APPLICANT: THEILL, LARS EYDE  
; APPLICANT: YU, GANG  
; TITLE OF INVENTION: METHODS AND COMPOSITIONS OF MATTER CONCERNING APRIL/G70, BCMA,  
; TITLE OF INVENTION: BLYS/AGP-3, AND TACI

FILE REFERENCE: A-686B  
CURRENT APPLICATION NUMBER: US/09/854,864  
CURRENT FILING DATE: 2001-09-11  
PRIOR APPLICATION NUMBER: US 60/204,039  
PRIOR FILING DATE: 2000-05-12  
PRIOR APPLICATION NUMBER: US 60/214,591  
PRIOR FILING DATE: 2000-06-27  
NUMBER OF SEQ ID NOS: 31  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 11  
LENGTH: 185  
TYPE: PRT  
ORGANISM: Murine  
US-09-854-864-11

Query Match 59.3%; Score 572; DB 10; Length 185;  
Best Local Similarity 62.6%; Pred. No. 1,2e-49;  
Matches 117; Conservative 21; Mismatches 41; Indels 8; Gaps 4;

4 MAGQCSQNEYPDSLHACIPCOLRCSNTPPLTCQRYCNASVTNSVKGTAIIMTCLGSLI 63  
1 MQQCHSHSEYFDSLHACIPCOLRCSNTPPLTCQRYCNASVTNSVKGTAIIMTCLGSLI 58  
64 LIISLAVFVLMFLRKISSEPLKDEPKN---TSGLLGMANIDLEKSRGTGEIILPRGL 119  
59 LVLSIALFTISFLRKNEALDEPQSDGSLQADKADTELTRIRAGDDRIEPRSL 118  
QY 120 EYVECTCEDCKSKPKVDSDHCPPLPAMEGATILVTNTKNDYCK-SLPAAL-SATEI 177  
DB 119 EYVECTCEDCKSKPKVDSDHCPPLPAMEGATILVTNTKNDYCKSVPTALQSVGM 178  
QY 178 EKSISAR 184  
DB 179 EKPTR 185

RESULT 12  
US-09-854-864-21  
Sequence 21, Application US/09854864  
Patent No. US20020081296A1  
GENERAL INFORMATION:  
APPLICANT: THEILL, LARS EYDE  
APPLICANT: YU, GANG  
TITLE OF INVENTION: METHODS AND COMPOSITIONS OF MATTER CONCERNING APRIL/G70, BCMA,  
FILE REFERENCE: A-686B  
CURRENT APPLICATION NUMBER: US/09/854,864  
CURRENT FILING DATE: 2001-09-11  
PRIOR APPLICATION NUMBER: US 60/204,039  
PRIOR FILING DATE: 2000-05-12  
PRIOR APPLICATION NUMBER: US 60/214,591  
PRIOR FILING DATE: 2000-06-27  
NUMBER OF SEQ ID NOS: 31  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 21  
LENGTH: 58  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-854-864-21

Query Match 33.5%; Score 323; DB 10; Length 58;  
Best Local Similarity 100.0%; Pred. No. 2.6e-25;  
Matches 58; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 CSQNEYPDSLHACIPCOLRCSNTPPLTCQRYCNASVTNSVKGTAIIMTCLGSLI 65  
DB 1 CSQNEYPDSLHACIPCOLRCSNTPPLTCQRYCNASVTNSVKGTAIIMTCLGSLI 58

RESULT 13  
US-09-854-864-12  
Sequence 12, Application US/09854864  
Patent No. US20020081296A1

GENERAL INFORMATION:  
APPLICANT: THEILL, LARS EYDE  
APPLICANT: YU, GANG  
TITLE OF INVENTION: METHODS AND COMPOSITIONS OF MATTER CONCERNING APRIL/G70, BCMA,  
FILE REFERENCE: A-686B  
CURRENT APPLICATION NUMBER: US/09/854,864  
CURRENT FILING DATE: 2001-09-11  
PRIOR APPLICATION NUMBER: US 60/204,039  
PRIOR FILING DATE: 2000-05-12  
PRIOR APPLICATION NUMBER: US 60/214,591  
PRIOR FILING DATE: 2000-06-27  
NUMBER OF SEQ ID NOS: 31  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 12  
LENGTH: 117  
TYPE: PRT  
ORGANISM: human-murine Consensus  
US-09-854-864-12

Query Match 32.3%; Score 311.5; DB 10; Length 117;  
Best Local Similarity 61.5%; Pred. No. 8.8e-24;  
Matches 96; Conservative 4; Mismatches 7; Indels 49; Gaps 19;

QY 9 CSQNEYPDSLHACIPCOLRCSNTPPLTCQRYCNASVTNSVKGTAIIMTCLGSLI 68  
DB 2 AQCEYFDSLHACIPCOLRCSNTPPLTCQRYCNASVTNSVKGTAIIMTCLGSLI 43  
QY 69 AVFVLMFLRKISSEPLKDEPKNKGSLGMANIDLEKSRGTGEIILPRGLIYVECTC 128  
DB 44 A-----FLLRK-----ELKDE-----GSLAL-----RSD---IPR-LEYVECTC 76  
QY 129 EDCIKSKPKVDSDHCPPLPAMEGATILVTNTKNDY 164  
DB 77 EDC-KSKPK-DSDDH-FPLPAMEGATILVTNTK-DY 108

RESULT 14  
US-10-115-192-12  
Sequence 12, Application US/10115192  
Publication No. US20030082175A1  
GENERAL INFORMATION:  
APPLICANT: Biogen, Inc.  
APPLICANT: Apotech R & D S.A.  
TITLE OF INVENTION: April Receptor (BCMA) and Uses Thereof  
FILE REFERENCE: A083PCT  
CURRENT APPLICATION NUMBER: US/10/115,192  
CURRENT FILING DATE: 2002-04-02  
PRIOR APPLICATION NUMBER: 60/215688  
PRIOR FILING DATE: 2000-06-30  
PRIOR APPLICATION NUMBER: 60/181807  
PRIOR FILING DATE: 2000-02-11  
PRIOR APPLICATION NUMBER: 60/157933  
PRIOR FILING DATE: 1999-10-06  
NUMBER OF SEQ ID NOS: 12  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 12  
LENGTH: 302  
TYPE: PRT  
ORGANISM: homo sapiens  
US-10-115-192-12

Query Match 29.7%; Score 286.5; DB 9; Length 302;  
Best Local Similarity 39.9%; Pred. No. 9.3e-21;  
Matches 81; Conservative 13; Mismatches 54; Indels 55; Gaps 8;

QY 1 MLOMAGQCSQNEYPDSLHACIPCOLRCSNTPPLTCQRYCNASVTNSVKGTAIIMTCL 60  
DB 24 MLOMAGQCSQNEYPDSLHACIPCOLRCSNTPPLTCQRYCNASVTNSVKGTDK-THTC- 81  
QY 61 GLSLISLAVFVLMFLRKISSEPLKDEPKNTGSLGMANIDLEKSRGTGEIILPRGLI 120  
DB 82 -----PFC-----PAPILGQPSVFLPFPKPKXTIMISRTPE 113

QY 121 YTWECTCEDCIKSKPKVSD-----HCFPLPAME-----GATILVTTKTNDY-- 164  
DB 114 VT---CVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREQYNSTYRVSVLTVLHODWLN 170  
QY 165 -----CKSLPALSAATEIEKSIS 182  
DB 171 GKVKCKVSNKALPA-PIEKTIS 192

## RESULT 15

US-09-854-864-9  
; Sequence 9, Application US/09854864  
; Patent No. US20020081296A1  
; GENERAL INFORMATION:  
; APPLICANT: THEILL, LARS EYDE  
; APPLICANT: YU, GANG  
; TITLE OF INVENTION: METHODS AND COMPOSITIONS OF MATTER CONCERNING APRIL/G70, BCMA,  
; TITLE OF INVENTION: BLYS/AGP-3, AND TACI  
; FILE REFERENCE: A-686B  
; CURRENT APPLICATION NUMBER: US/09/854,864  
; PRIOR FILING DATE: 2001-09-11  
; PRIOR APPLICATION NUMBER: US 60/204,039  
; PRIOR FILING DATE: 2000-05-12  
; PRIOR APPLICATION NUMBER: US 60/214,591  
; PRIOR FILING DATE: 2000-06-27  
; NUMBER OF SEQ ID NOS: 31  
; SOFTWARE: Patent version 3.1  
; SEQ ID NO 9  
; LENGTH: 283  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-854-864-9

Query Match 29.7%; Score 286; DB 10; Length 283;  
Best Local Similarity 37.6%; Pred. No. 9.7e-21;  
Matches 80; Conservative 12; Mismatches 47; Indels 74; Gaps 7;

QY 4 MAGCCSONEYFDSLHACIPCOLRCSNTPPLTCORCNASVTNSVKGTAIIMTCLGLS 63  
DB 1 MAGCCSONEYFDSLHACIPCOLRCSNTPPLTCORCNASVTNSVKGTAI----- 51  
QY 64 LIISLAVFLMFLRKISSEPLKDEFKNTSG-----LIGMANIDLEKSRGT 110  
DB 52 -----GGGGDKHTCCPPCAPBELLGSPSVLFPKPK 84  
QY 111 DEIILPRGLTYVECTCEDCIKSKPKVSD-----HCFPLPAME-----GATIL 156  
DB 85 DTIMISRTPEVT---CVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREQYNSTYRVSV 141  
QY 157 VTTKTNDY-----CKSLPALSAATEIEKSIS 182  
DB 142 LTVLHODWLNKVKCKVSNKALPA-PIEKTIS 173

Search completed: June 23, 2003, 08:54:12  
Job time: 52.9851 secs